

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/004179

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04L H04Q H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/183066 A1 (PANKAJ RAJESH K) 5 December 2002 (2002-12-05)	1-5, 8-12, 16-29, 31
A	paragraphs '0010!, '0039!, '0052!  paragraphs '0054!, '0059!, '0061! paragraph '0079! - paragraph '0081! paragraph '0099! - paragraph '0110! paragraph '0115! - paragraph '0120! paragraph '0124! figures 1A,2 abstract ----- -/-	6,7, 13-15, 30,32,33

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the International search

7 January 2005

Date of mailing of the International search report

17/01/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 317 110 A (CIT ALCATEL) 4 June 2003 (2003-06-04) paragraph '0063! - paragraph '0066! paragraphs '0089!, '0090! abstract -----	1-33
A	WO 01/52588 A (QUALCOMM INC) 19 July 2001 (2001-07-19) page 3, line 21 - page 5, line 24 page 11, line 20 - page 14, line 5 page 15, line 10 - page 16, line 14 page 18, line 19 - line 27 page 24, line 6 - page 27, line 27 -----	1-33
A	EP 1 227 626 A (MOTOROLA INC) 31 July 2002 (2002-07-31) paragraphs '0002!, '0006!, '0007! paragraph '0012! - paragraph '0015! paragraph '0018! - paragraph '0021! abstract -----	1-33
A	US 6 400 699 B1 (PAULRAJ AROGYASWAMI J ET AL) 4 June 2002 (2002-06-04) column 3, line 16 - line 36 column 4, line 58 - column 5, line 42 column 7, line 21 - column 8, line 67 column 10, line 20 - column 12, line 13 -----	1-33
A	US 2003/124988 A1 (CHO DONG-HO ET AL) 3 July 2003 (2003-07-03) paragraphs '0005!, '0006!, '0008! paragraph '0011! - paragraph '0016! paragraphs '0018!, '0019!, '0025! paragraphs '0027!, '0028!, '0035! paragraph '0037! - paragraph '0044! paragraph '0047! - paragraph '0049! -----	1-33

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Information on patent family members

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